

ABSTRACT OF THE DISCLOSURE

The present invention provides an analytical model preparing apparatus which reduces the user's labor of template selecting operation by selecting and presenting an appropriate template from among a plurality of already prepared templates. The analytical model preparing apparatus of the invention comprises means for entering a shape model to be analyzed; a database which associates at least one already prepared shape model with the analytical model prepared for such an already prepared shape model, and registers the same; means for collating the above-mentioned shape model to be analyzed with at least one already prepared shape model; analytical model preparing means for preparing at least one analytical model corresponding to the shape model to be analyzed, by use of analytical model preparing information prepared for the above-mentioned already prepared shape model, in accordance with the result of collation; and mesh quality evaluating means for calculating a mesh quality evaluation value for the analytical model corresponding to at least one prepared shape model to be analyzed.

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